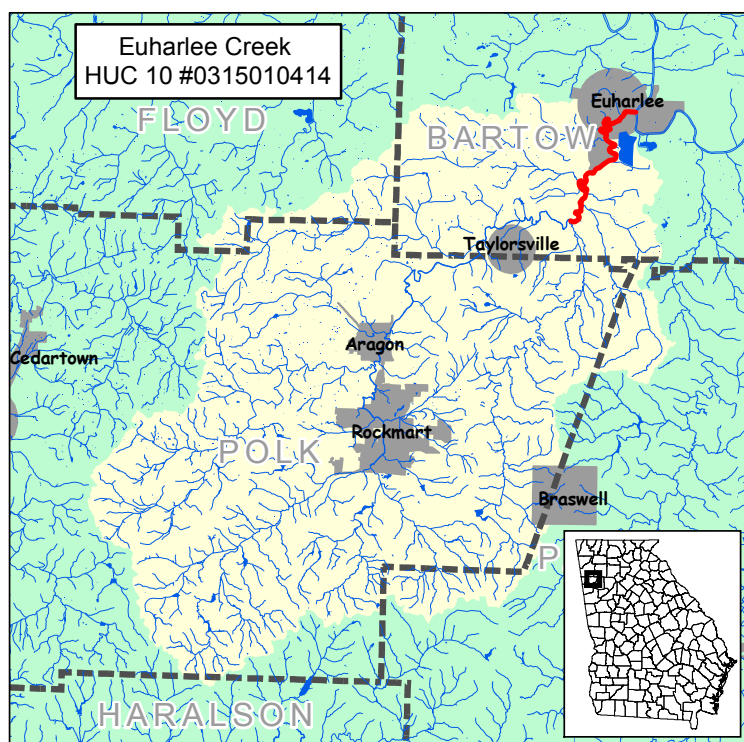


STATE OF GEORGIA
TMDL IMPLEMENTATION PLAN

EUHARLEE CREEK
(Fecal Coliform)
Revision 01: April 28, 2006

Prepared by
The Georgia Department of Natural Resources
Environmental Protection Division
Atlanta, GA

TMDL Implementation Plans are platforms for establishing a suggested course of actions to restore impaired water bodies. They are intended to be a continuing process, subject to revision as new conditions and information warrant. Procedures will be developed to track and evaluate implementation of management practices and activities identified in the plans. Once restored, these will be continued to maintain the water bodies. The overall Plan goal is to define a set of actions that will help achieve water quality standards in the state of Georgia. This Plan was originally prepared as an implementation inventory in 2001 by the Coosa Valley RDC using a Section 604(b) Grant. In this revision (Revision 01) TMDL load allocation information has been updated by EPD to reflect the approved TMDL.



Impaired Waterbody*	Impaired Stream Location	River Basin	Miles/Area Impacted	Partially Supporting/ Not Supporting
Euharlee Creek	Hills Creek to upstream Plant Bowen	Coosa	4	Partially Supporting

EUHARLEE CREEK TMDL IMPLEMENTATION PLAN

Prepared by

Coosa Valley Regional Development Center

Date: September 14, 2001

The preparation of this report was financed in part through a grant from the U.S. Environmental Protection Agency under the Provisions of Section 604 (b) of the Federal Water Pollution Control Act, as amended.

CONTACTS

Coosa Valley Regional Development Center
P.O. Box 1793
Rome, GA 30162
(706) 295-6485
(706) 295-6665 FAX

Kristan Taylor- ktaylor@cvrdc.org
Theresa Coker- tcoker@cvrdc.org

Bartow County
Steve Bradley, County Administrator
135 W. Cherokee Avenue
Cartersville, GA 30120
(770) 387-5030

EUHARLEE CREEK TMDL IMPLEMENTATION PLAN

NARRATIVE PLAN

Euharlee creek, located in Bartow County, is listed on the Georgia 303(d) list due to an exceedance of the 400 cfu/100ml one time standard for fecal coliform during months of May to October. The Georgia Environmental Protection Division collected water samples from the creek each month during 1996. It exceeded the standard both in June and August with a count of 790 cfu/100ml. The samples were collected at the Old Alabama Rd. (CR 32) bridge where it crosses Euharlee creek.

Coosa Valley Regional Development Center personnel led the process to develop this TMDL implementation plan for Euharlee creek. A draft plan was established at a preliminary planning meeting on August 1, 2001 that was held with officials from Bartow county and technical experts. A public meeting was held on August 28, 2001 at Woodland Middle School in Euharlee to present the draft plan, provide information on the TMDL process, and to obtain local residents input on further development of the plan. In attendance were twenty-six people including city officials, landowners, Keep Bartow beautiful members, NRCS, and local media.

The film “Watershed Wisdom: Georgia’s TMDL program” was viewed to define TMDL’s and their need for implementation. It was followed by a Power Point presentation, review of the draft plan, and a brainstorming session. During the brainstorming session many residents attributed the problem to a nearby swamp, located upstream of the section listed. The majority agreed that further monitoring of the entire stream was necessary to pinpoint the source of pollution. Other suggestions listed included; determining the source of fecal coliform, providing educational programs, monitoring for other pollution problems, sampling the swamp, educating people on septic systems, checking land application of waste, and livestock in the creek.

The first approach of this Implementation plan is to develop a monitoring program for the creek. Kennesaw State University compiled a report in April 2001 on the “Status of Water Quality and Biological Integrity in Major Watersheds in Bartow County, Georgia” that contained limited sampling of Euharlee Creek in Bartow County. Kennesaw State University has indicated the possibility of continued sampling of streams and creeks that were sampled for the watershed assessment including Euharlee Creek. Bartow County and CVRDC will pursue these possibilities to setup a monitoring plan for this segment of Euharlee Creek. The second approach will be education from the Natural Resources Conservation Service (NRCS) and Cooperative Extension Service (CES) in the agriculture sector emphasizing voluntary installation of BMP’s such as stream buffers, particularly through the use of cost-share programs. Education by the county and CVRDC to inform individuals of the status of TMDL’s on local listed streams will also be included.

Euharlee Creek Brainstorming Ideas and Results

<u>Suggestions:</u>	<u>Number of Votes:</u>
1. Pinpoint the source of pollution	14
2. Start sampling from the top of the watershed	13
3. Monitor the selected section of the creek	7
4. Inform the people on sampling procedures	5
5. Test to determine the type of fecal (ie; human, animal)	4
6. Clean up the nearby swamp	4
7. Determine if flooding could be the cause	3
8. Acquire federal and state funding to assist local governments	2
9. Provide Adopt-A-Stream and other educational programs	2
10. Monitor for other pollution problems (not just fecal)	1
11. Sample the nearby swamp	1

No Votes

Educate on septic systems

Check the wastewater treatment plant for possible discharge

Land application of waste may be the problem

Problem could be the cows in the creek

STATE OF GEORGIA

TMDL INVENTORY PLAN FOR: Euharlee Creek Fecal ColiformRIVER BASIN: Coosa River Basin

(STREAM)

(PARAMETER)

PLAN DATE: September 14, 2001

Prepared by: <u>Coosa Valley Regional Development Center</u> Address: <u>P.O. Box 1793</u> City: <u>Rome</u> State: <u>Georgia</u> Zip: <u>30162-1793</u> e-mail: <u>ktaylor@cvrddc.org</u> Date Submitted to EPD: <u>September 14, 2001</u>		Or Prepared By: _____ Address: _____ City: _____ State: _____ Zip: _____ e-mail: _____ Date Submitted to EPD: _____	
General Information Obtain this information from the TMDL document or other information. When completed, this document will be a self-contained report independent of the TMDL document.		Significant Stakeholders Identify local governments, agricultural organizations or significant land holders, commercial forestry organizations, businesses and industries, and local organizations including environmental groups with a major interest in this water body.	
TMDL ID (to be entered by EPD)	CSA0000007	Name/Organization	Bartow County, Clarence Brown, Commissioner
Water body name	Euharlee Creek	Address	135 West Cherokee Ave.
HUC basin name	Coosa River	City	Cartersville
HUC number	03150104	State	GA
Primary county	Bartow County	Zip	30120
Secondary county		Phone	(770) 387- 5030
Primary RDC	Coosa Valley	Name/Organization	Bartow County Environmental Health Department, Pam Robinson
Secondary RDC		Address	P.O. Box 665
Water body location	Hills Creek to upstream	City	Cartersville
	Plant Bowen	State	GA
Miles or area impacted	4 miles	Zip	30120
Parameter addressed in plan	Fecal Coliform	Phone	(770) 387- 5170
Water use classification	Fishing	Name/Organization	Georgia Power, Plant Bowen, Bill McMullen
Degree of impairment	Partially supporting use X	Address	Bin 76440, P.O. Box 200127
Date TMDL approved by EPD	January 2004	City	Cartersville
Impairment due to	Point sources	State	GA
	Nonpoint sources X	Zip	30120
	Both	Phone	(770) 387- 5353
Point source-Form A; Nonpoint source-Form B; Both-Form A+B+C		Name/Organization	Coosa River Soil and Water Conservation District
		Address	700 E. 2 nd Ave., Suite J
		City	Rome
		State	GA
		Zip	30161
		Phone	John Collins, Davis Nelson
		E-mail	

If more, add to comments on last page.

FORM B

SUMMARY OF ALLOCATION MODEL RESULTS FROM TMDL DOCUMENT (existing load, target TMDL, and needed reduction)

EXISTING LOAD	TARGET TMDL	NEEDED REDUCTION
5.46E+13 Counts/30 days	1.26E+13 Counts/30 days	77%

I. IDENTIFY **NONPOINT SOURCE** CATEGORIES AND SUBCATEGORIES OR INDIVIDUAL SOURCES WHICH MUST BE CONTROLLED TO IMPLEMENT LOAD ALLOCATIONS:

List major nonpoint sources contributing to impairment including those identified in TMDL document.

SOURCE	DESCRIPTION OF CONTRIBUTION TO IMPAIRMENT	RECOMMENDED LOAD REDUCTION (FROM TMDL)
Forest pervious	Nonpoint	Not specific to this Source
Agricultural pervious	Nonpoint	Not specific to this Source
Urban pervious	Nonpoint, failing septic tanks, wildlife, and pets	Not specific to this Source
Urban impervious	Nonpoint, storm water runoff	Not specific to this Source

II. DESCRIBE ANY REGULATORY OR VOLUNTARY ACTIONS INCLUDING MANAGEMENT MEASURES OR OTHER CONTROLS BY GOVERNMENTS OR INDIVIDUALS THAT SPECIFICALLY APPLY TO THE POLLUTANT AND THE WATERBODY FOR WHICH THE TMDL WAS WRITTEN, THAT WILL BE ACCOMPLISHED THROUGH RELIABLE AND EFFECTIVE DELIVERY MECHANISMS, AND THAT WILL HELP ACHIEVE THE LOAD ALLOCATIONS IN THE TMDL:

See the attachment for more instructions.

Existing or required regulatory actions

RESPONSIBLE GOVERNMENT, ORGANIZATION OR ENTITY	NAME OF REGULATION/ORDINANCE	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Bartow County	Erosion and Sediment Control	Minimum 25 ft. buffer from water ways		
Bartow County Health Dept., EHD	Rules and regulations for on-site sewage mgt.	Septic System Code	Jan-98	Enforced, State regs. Adopted by the Board of Health

Existing voluntary actions

RESPONSIBLE ORGANIZATION OR ENTITY	NAME OF ACTION	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Farm Services Agency	Conservation Reserve Program	Continuous sign-up for buffers	1985	Excellent program for ag producers
Natural Resources Conservation Service	Environmental Quality Incentives Program	State Priority Items	1997	Yearly sign-up for ag producers
Natural Resources Conservation Service	Wetland Reserve Program	On-going wetland restoration program	1985	Has not been useful in NW Georgia
Georgia EPD/Lake Allatoona Preservation Authority	Source Water Assessment Program	Inventory and risk assessment for water supply watersheds	Nov-03	In progress

Additional recommended regulatory or other measures which should be implemented to reduce the loads of the TMDL parameter

ENTITY/ORGANIZATION RESPONSIBLE	NAME OF PROPOSED REGULATION/ORDINANCE/ OTHER	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Bartow County	Watershed Management Plan	Based on Watershed Assessment recommendations		projected
Metro. North Georgia Water Planning District	District Watershed Management Plan	Watershed Management plan with water quality monitoring component	May 2003	planning

III. SCHEDULE FOR IMPLEMENTING MANAGEMENT MEASURES OR OTHER CONTROL ACTIONS:

These must be implemented as expeditiously as practicable within five years of when the implementation plan is accepted by EPD.

IMPLEMENTATION ACTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Form stakeholders group	X				
Organize implementation work with stakeholders and local officials to identify remedial measures and potential funding sources	X	X			
Identify sources of TMDL parameter	X	X			
Develop management programs to control runoff including identification and implementation of BMPs (Phase I):					
Agriculture	X	X			
Forestry	X	X			
Urban	X	X			
Mining					
Organize and implement education and outreach programs	X	X	X	X	
Detect and eliminate illicit discharges	X				
Evaluate additional management controls needed		X	X		
Monitor and evaluate results	X	X	X	X	X
Reassess TMDL allocations		X			X
Provide periodic status reports on implementation of remedial activities	X	X	X	X	X
If needed, begin process for Phase II (next 5 years) and subsequent phases					X

IV. PROJECTED ATTAINMENT DATE AND BASIS FOR THAT PROJECTION:

The projected attainment date is 10 years from acceptance of the implementation plan by EPD.

V. MEASURABLE MILESTONES:

- Number of management controls and activities already implemented 6
- Number of management controls and activities proposed in five-year work program 2
- Number of management controls and activities actually implemented in five-year work period _____ (to be completed after 5 years)
- Stream sampled to identify areas of concern _____
- Other _____
- Other _____

VI. MONITORING PLAN:

Monitoring data that placed stream on 303(d) list will be provided if requested.

Describe previous or current sampling activities or other surveys to detect sources or to measure effectiveness of management measures or other controls.

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS
Watershed Assessment Sampling, Kennesaw State	2000	Various, including fecal coliform	Sampling to determine overall health of watersheds in the county	To be continued

Describe any planned or proposed sampling activities or other surveys. (Scheduled EPD sampling can be found in the Basin Planning document.)

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS
EPD	2001-2002	Various	Basin planning	'01 collection
Bartow County/Kennesaw State University	2001-2002	Fecal coliform	Determine current levels of fecal coliform in Euharlee Creek	planning

VII. CRITERIA TO DETERMINE WHETHER SUBSTANTIAL PROGRESS IS BEING MADE:

- % Concentration or load change (monitoring program)
- Categorical change in classification of the stream (delisting the stream is the goal)
- Regulatory controls or activities installed (ordinances, laws)
- Best management practices installed (agricultural, forestry, urban)

COMMENTS:

See attached Narrative Plan

Name/Organization **Georgia Soil and Water Conservation Commission**
Address **700 E. 2nd Avenue, Suite J**
City/State/Zip **Rome, GA 30161**
Contact **Keith Gilmer**
Telephone **(706) 295-6131**
E-mail

Name/Organization **Georgia Cooperative Extension Service**
Address **115 West Cherokee Ave.**
City/State/Zip **Cartersville GA 30120**
Contact **Ed Hornyak**
Telephone **(770) 387- 5142**
E-mail

Name/Organization **Rolling Hills RC&D**
Address **Greystone EMC Bldg., 203 Legion Rd.**
City/State/Zip **Dallas, GA 30132**
Contact **Cindy Haygood**
Telephone **(770) 505-4288**
E-mail

Name/Organization **DNR-Wildlife Resources**
Address **2592 Floyd Springs Rd.**
City/State/Zip **Armuchee, GA 30105**
Contact **Noel Holcomb, Region Game Supervisor**
Telephone
E-mail

Name/Organization **U.S. Corps of Engineers, Operations Managers Office**
Address **P.O. Box 487**
City/State/Zip **Cartersville, GA 30120**
Contact **Ken Huddleston**
Telephone **(770) 382-4700**
E-mail

Name/Organization **Farm Bureau of Bartow County**
Address **35 Nelson St.**
City/State/Zip **Cartersville, GA 30120**
Contact
Telephone **(770) 382- 2951**
E-mail

Name/Organization **Georgia Public Interest Research Group**
Address **1447 Peachtree Street, Suite 304**
City/State/Zip **Atlanta, GA 30309**
Contact **Maggie Kelly**
Telephone **(404) 892-3573**
E-mail **mkpirg@juno.com**

Name/Organization **Georgia Forestry Commission**
Address **1005 N. Tennessee Rd.**
City/State/Zip **Cartersville, GA 30120**
Contact
Telephone **(770) 387-3750**
E-mail

Name/Organization **USDA-Natural Resources Conservation Service**
Address **717 S. Wall St. Box1**
City/State/Zip **Calhoun, GA 30701-2615**
Contact **Bill Davidson**
Telephone **(706) 629-2582**
E-mail

Name/Organization **USDA- Farm Services Agency**
Address **717 S. Wall St.**
City/State/Zip **Calhoun, GA 30701-2615**
Contact
Telephone **(770) 629-2582**
E-mail

Significant Stakeholders Page 3

Name/Organization **Bartow County Schools**
Address **P.O. Box 200007**
City/State/Zip **Cartersville, GA 30120**
Contact **Dr. John Phillips, Superintendent**
Telephone
E-mail

Name/Organization **Etowah Valley Historical Society**
Address **210 E. Main St.**
City/State/Zip **Cartersville, GA 30120**
Contact **Guy Parmenter, President**
Telephone **(770) 382- 0500**
E-mail

Name/Organization **Keep Bartow Beautiful**
Address **P.O. Box 307**
City/State/Zip **Cartersville, GA 30120**
Contact **Sherri Henshaw**
Telephone **(770) 607-5698**
E-mail

Name/Organization **Bartow Co. Chamber of Commerce**
Address **122 W. Main St.**
City/State/Zip **Cartersville, GA 30120**
Contact **Drew Tonsmeire**
Telephone **(770) 382-1466**
E-mail

Name/Organization **Cary Rhodes**
Address **P.O. Box 124**
City/State/Zip **Talorsville, GA 30178**
Contact **Mayor**
Telephone
E-mail

Name/Organization **Vicky Lanier**
Address **39 Lanier Drive**
City/State/Zip **Talorsville, GA 30178**
Contact **Councilwoman**
Telephone
E-mail

Name/Organization **Harvey Woods**
Address
City/State/Zip **Talorsville, GA 30178**
Contact
Telephone
E-mail

Name/Organization **Terry Cantrell**
Address **1364 Euharlee Rd.**
City/State/Zip **Kingston, GA 30145**
Contact **Mayor of Euharlee**
Telephone
E-mail

Name/Organization **Daily Tribune**
Address **P.O. Box 70**
City/State/Zip **Cartersville, GA 30120**
Contact **Matt DiFebo**
Telephone
E-mail

Name/Organization **Bartow Neighbor**
Address **10 S. Wall St.**
City/State/Zip **Cartersville, GA 30120**
Contact **Shannon Montgomery**
Telephone **(770) 386- 0872**
E-mail

Name/Organization **Aldelphia/ Channel 4**
Address **P.O. Box 190**
City/State/Zip **Cartersville, GA 30120**
Contact **Kathryn Murchinson**
Telephone
E-mail

Name/Organization **Smart Growth Alliance**
Address **917 N. Tennessee St.**
City/State/Zip **Cartersville, GA 30120**
Contact **Greg Frisbee**
Telephone **(770) 607-5868**
E-mail

Name/Organization **Euharlee Farmers Club**
Address **165 Old Stilesboro Rd. SW**
City/State/Zip **Cartersville, GA 30120**
Contact **David Smith, President**
Telephone
E-mail

Name/Organization **Georgia Power, Environmental Affairs**
Address **Bin 10221, 241 Ralph McGill Blvd., NE**
City/State/Zip **Atlanta, GA 30308-3374**
Contact **Charles Stallworth**
Telephone
E-mail

Name/Organization **Steve Bradley**
Address **135 W. Cherokee Ave., Suite 251**
City/State/Zip **Cartersville, GA 30120**
Contact **Bartow Co. Administrator**
Telephone
E-mail

Name/Organization **Stan Herring**
Address **135 W. Cherokee Ave., Suite 124**
City/State/Zip **Cartersville, GA 30120**
Contact **Bartow Co. Engineer**
Telephone
E-mail

Name/Organization **Frankie Harris**
Address **19 Burge's Mill Rd.**
City/State/Zip **Kingston, GA 30145**
Contact **Euharlee City Manager**
Telephone
E-mail

Name/Organization
Address
City/State/Zip
Contact
Telephone
E-mail

Name/Organization
Address
City/State/Zip
Contact
Telephone
E-mail

Name/Organization
Address
City/State/Zip
Contact
Telephone
E-mail